

BOX 28

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Intermec introduces a family of products for



data recording, data transmission, data entry and data retrieval...



...all featuring DUAL IMAGE data visibility



All Intermec products are based on **DUAL IMAGE**, a unique concept using paper or mylar tape for data storage, display and retrieval. These products can be configured in a variety of ways to address a wide range of applications, which also provides the user a broad selection of speed, sophistication, and flexibility. The Intermec **DUAL IMAGE** concept offers significant advantages for—

Recording

- Up to 128 different symbols in a character set
- Choice of any 5, 6, 7 or 8-bit code
- Recording speeds up to 75 characters per second
- Storage capacity of up to 40,000 characters
- Instant display of last character recorded
- Unlimited use of white space for improved readability

Editing and Correction

- High speed copying
- Use of pencil marks on tape for skip, copy, or skip/copy functions at high speeds
- A variety of data correction procedures, including single character deletes and block (bulk) discards.

Reading

- Data transmission at speeds from 10 to 120 characters per second
- Computer input at speeds up to 300 characters per second
- Photo composition and numerical control input at speeds up to 300 characters per second

READERS

The 1100 models are equipped with a constant speed capstan drive which moves the tape past the readhead at a fixed speed. The reader automatically stops when the end of the tape has been reached. The output of the reader is standard TTL/DTL compatible logic levels. The readers are mounted on a panel 19" wide x 5 1/4" high, and operate at the following speeds:

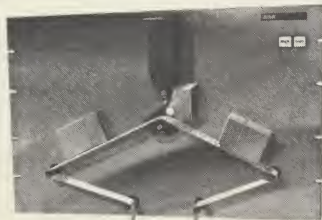


Models 1101, 1102, 1103, 1104

- Model 1101** - 30 char/sec
- Model 1102** - 60 char/sec
- Model 1103** - 120 char/sec
- Model 1104** - 300 char/sec

READERS

The 1150 models are equipped with an incremental tape drive, which permits reading the tape a character at a time at any random rate up to the maximum. Bi-directional reading is available as an option. End of tape sensing switches are standard. The output of the reader is standard TTL/DTL compatible logic levels. The readers are mounted on a panel 19" wide x 10 1/2" high, and operate at the following speeds:

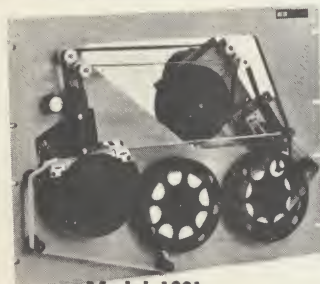


Models 1151, 1152

- Model 1151** - 150 char/sec
- Model 1152** - 300 char/sec

PRINTERS

The Model 1201 recorder is a high speed data capture device, where the printing speed is a function of the character set. Typical speeds are:



Model 1201

- | | |
|-------------------|--------------|
| 128 character set | 40 char/sec |
| 64 character set | 75 char/sec |
| 10 character set | 100 char/sec |

The last character printed is visible to the operator. The 1201 is equipped with a tape supply reel as standard. Take up reel, and end of tape/end of ribbon sensing switches available as options. The unit responds to standard TTL/DTL logic level inputs. The printer is mounted on a panel 19" wide x 14" high.

ACCESSORIES

The Model 1301 tape handler is equipped with a pair of 5" power driven reels, and can handle tape in either direction at speeds up to 30 IPS. This handler can be used with any Intermec reader. The unit is mounted on a panel 19" wide x 5 1/4" high.



Model 1301

KEYBOARD PRINTER

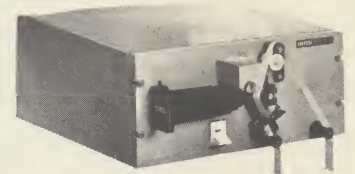
The Model 2101 is a self-contained keyboard recorder, consisting of a print mechanism, a keyboard, and all associated electronics. The last character keyed is visible to the operator, and 12 inches of the recorded tape is also displayed. A variety of keyboards are offered as standard, such as ASCII, Graphic Arts, or Selectric. Error correction procedures include character delete, block delete, and the discard of record fragments. An optional input/output interface is available which allows the insertion of additional data in the recorded tape, such as the check digits, hash totals, batch totals, or special character sequences. The same interface can be used for a verify reader, or a loop reader for automatic insertion of repetitive data. The unit is housed in a desk top enclosure 19" wide x 7" high x 14" deep.



Model 2101

DATA TRANSMITTERS

The 2200 models are self-contained units, complete with appropriate interface to a customer supplied modem. These units are fixed speed devices, and automatically stop transmitting when the end of the tape is reached. The units are housed in a desk top enclosure 12" wide x 6" high x 12" deep.



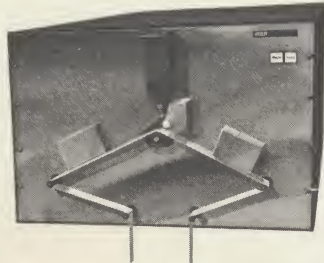
Models 2201, 2202, 2203

- Model 2201** - 300 words per minute
Use Bell 103 or equivalent
- Model 2202** - 600 words per minute
Use Bell 402C or equivalent
- Model 2203** - 1200 words per minute
Use Bell 202 or equivalent

DATA

TRANSMITTERS

The 2250 models are self-contained units, complete with appropriate interface to a customer supplied modem. The units contain full error control logic, and can be stopped and started by use of the reverse channel. A back up and transmit feature and end of tape sensor is included as standard. The units are housed in a desk top enclosure 19" wide x 10 1/2" high x 18" deep.



Model 2251

Model 2251 - 1200 words per minute
Use Bell 202 or equivalent

The Model 3101 single tape system is a high speed remote data entry terminal. It functions as a keyboard recorder, a data transmitter, and a data receiver. Data is normally captured off line via the keyboard, and when a suitable "batch" has been recorded, the tape is transmitted to a receive terminal or to a computer. Transmission speeds of up to 1200 words per minute are possible with normal voice grade telephone lines. Information can be received by the Model 3101 at speeds up to 300 words per minute, which permits error listings or non-valid records to be returned to the sender for correction. Since correct portions of the record are retained, only the "new" information must be re-keyed, greatly reducing the possibility of errors due to re-keying. The DUAL IMAGE tape serves as a hard copy record at the terminal site, and can be used for reference or filing. The unit is housed in a desk top enclosure 22" wide x 7" high x 24" deep, including keyboard.



Model 3101

The Model 3201 dual tape machine is a more flexible, more powerful version of the Model 3101. The system has two tape paths, which permits simultaneous and independent printing and reading. A DUAL IMAGE tape can be printed from either the keyboard or reader in the system, or



Model 3201

from an external source such as a typewriter, a data transmission link, or a computer. DUAL IMAGE tape can be read into a computer, a line printer, a typewriter, or into the systems own printer. DUAL IMAGE tape responds to pencil marks, and these marks can be used to execute SKIP, COPY and SKIP/COPY commands. Tape clean up or re-write takes place at 600 words per minute. By virtue of the two tape paths, the machine can function as a remote batch terminal, a communications buffer, or a high speed editing system. The Intermec keyboard can be replaced by a customer supplied IBM 731 or 735 Selectric typewriter, which furnishes page copy for remote batch applications. The page copy, plus the ability to mark on the tape with a pencil, creates a high speed editing system. In addition, data such as check digits and hash totals can be automatically inserted in the tape. The system reader can be used for second pass verification, further ensuring the accuracy of the printed tape. The unit is housed in a desk top enclosure 22" wide x 7" high by 24" deep, including the keyboard.

MODULES

Intermec also sells the following modules for incorporation into other systems.

Print Module

Pinch roller module

Ribbon/tape incrementor module

Read module

INTERFACE MECHANISMS, INC. 5503 - 232nd Street S. W., Mountlake Terrace, Washington 98043 (206) 774-3511
IN UK AND EUROPE Building 112A Schiphol Airport Amsterdam The Netherlands—Telephone (020) 151602

HU—April 1970—

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Dual Image PRICE LIST

April 1970

THIS TAPE IS HUMAN READABLE - LIKE A TYPEWRITTEN LINE. COMPUTERS READ IT LIKE MAGNETIC TAPE. THIS TAPE ALLOWS YOU TO SEE AND CHECK ASSEMBLED DATA BEFORE COMPUTER E

DUAL IMAGE SYNCHRONOUS READERS

Panel mounted, continuous capstan drive, with start read switch and end-of-tape switch. No reeling. Panel size 19" wide x 5 1/4" high.

Model 1101	(30 char/sec)	\$ 500
Model 1102	(60 char/sec)	\$ 500
Model 1103	(120 char/sec)	\$ 825
Model 1104	(300 char/sec)	\$ 825

Power Supply, mounts on reader panel.....\$ 125
(Technical Reference No. 600179)

DUAL IMAGE ASYNCHRONOUS READERS

Panel mounted, pinch roller can be continuously engaged, or stepped at any rate up to the maximum. End of tape switch included. Panel size 19" wide x 10 1/2" high.

Model 1151	(150 char/sec)	\$ 900
Model 1152	(300 char/sec)	\$ 950

Reverse read option, includes pinch roller and control logic\$ 250

Power supply, mounts on reader panel\$ 290
(Technical Reference No. 600185)

DUAL IMAGE PRINTER

Model 1201 Panel mounted printer, with tape supply and ribbon module.
Printing speed depends upon character set used.

128 character set	40 char/sec
64 character set	75 char/sec
10 character set	100 char/sec

Panel size 19" wide x 14" high\$1150

Power take up reel\$ 100

Power supply and electronic control option, mounts on printer panel\$ 450

Binary printing option, permits printing of all 256 8-bit characters\$ 150

Out of tape/out of ribbon option\$ 150
(Technical Reference No. 600182)

DUAL IMAGE TAPE HANDLERS

Panel mounted, with power driven supply reel and power driven take up reel. Standard Intermec 5" reels furnished. Fully bi-directional at speeds up to 30 inches per second. For use with all Intermec panel mounted readers.
Panel size 19" wide x 5 1/4" high.

Model 1301\$ 590

Tape Edit Viewer Option 19" wide x 3 1/2" high.
.....\$ 100

(Technical Reference No. 600184)

DUAL IMAGE KEYBOARD DATA RECORDER

Model 2101 Standard unit, with all electronics and cabinet. Choice of ASCII, Graphic Arts, or Selectric keyboards\$1800

Power take up reel\$ 100

Parallel data I/O interface. Permits keyboard data to be monitored, and/or data to be printed from an external signal source\$ 125

Modulus 11 check digit option. 1. Permits keyboard data to be analyzed for proper check digit content. Requires parallel I/O interface
.....\$ 400

(Technical Reference No. 600178)

DUAL IMAGE BASIC DATA TRANSMITTERS

Desk top mounting. Includes reader, logic, power supply and modem interface. Does not include modem. Unit transmits at fixed speed until end of tape is reached. Cabinet size 12" wide x 5 1/4" high x 12" deep.

Model 2201 (300 words per minute)
Use Bell 103 modem or equivalent\$ 850

Model 2202 (600 words per minute)
Use Bell 402 modem or equivalent\$ 750

Model 2203 (1200 words per minute)
Use Bell 202 modem or equivalent\$1200
(Technical Reference No. 600194)

DUAL IMAGE DATA TRANSMITTERS—

WITH ERROR CONTROL

Desk top mounting. Includes reader, logic, power supply and modem interface. Does not include modem. Unit responds to reverse channel start/stop commands, contains error control features.

Model 2251 (1200 words per minute)
Use Bell 202 modem or equivalent.....\$2050
(Technical Reference No. 600195)

DUAL IMAGE REMOTE DATA ENTRY CONSOLE— SINGLE TAPE

Model 3101 Basic print/read unit, includes electronics, tape supply, forward tape drive, mounted in desk top cabinet\$4020

Keyboard, with case and connecting cable. Up to 66 keys with 10 control keys. Choice of ASCII, Graphic Arts, or Selectric keyboards\$ 650

Tape handling option. Includes powered supply reel, power take up reel, and reverse tape drive\$ 415

Conversational serial send/receive option. Up to 300 baud transmit, up to 300 baud receive. Use Bell 103 modem or equivalent\$ 400
(Technical Reference No. 600099)

DUAL IMAGE PRINT/READ CONSOLE—DUAL TAPE

Model 3201 Basic unit with independent print and independent read function, includes all electronics, 2 powered reels, 1 non powered reel forward tape drive, mounted in desk top cabinet\$4460

Keyboard with case and connecting cable. Up to 66 keys plus 10 control keys. Choice of ASCII, Graphic Arts, or Selectric keyboards \$ 650

Typewriter I/O interface option. Permits customer furnished IBM 731 or 735 to be used in place of Intermecc keyboard for input. Typewriter also functions as page copy output. (Price does not include typewriter)\$ 500

Backspace and reverse read option.....\$ 300

Tape copy/edit option. Provides tick mark recognition and copy/skip controls\$ 200

White space generation option. Recognizes code as it is printed and generates fixed amount of white space in output tape. Programmable for up to 3 "levels" of white space\$ 200

Page printer interface option. (Does not include code conversion): IBM 731/735 Selectric, Data Products 2310, Syner-Data Beta, Teletype 33, 35, 37\$ 250

Code conversion for page printer interface where required\$ 250

Modulus 11 check digit option. Permits keyboard input data to be analyzed for proper check content\$ 375

Binary printing option. Permits printing of all 256 8-bit characters\$ 150

Conversational data transmit/receive option. Up to 300 baud transmit, up to 300 baud receive (Bell 103 or equivalent)\$ 400

Batch data transmit/receive option. Up to 1200 baud transmit, 600 baud receive, with full error control and 50 character buffer (Bell 202 or equivalent)\$1250
(Technical Reference No. 600170)

DUAL IMAGE MODULES

Print Module, including motor, hammer, hammer solenoid, hammer drive circuits with voltage regulation and spark suppression.....\$ 650
(Technical Reference No. 600167)

Print Wheel\$ 125
(Technical Reference No. 600189)

Ribbon/Tape Incrementor. Single unit for movement of both carbon ribbon and paper tape. Used with print module\$ 225
(Technical Reference No. 600193)

Read Module, with read control card\$ 475
(Technical Reference No. 600193)

Pinch Roller, with brake. Used with read module or print module\$ 175
(Technical Reference No. 600192)

SUPPLIES

Paper tape, 4-3/4" roll contains 440'. Shipped 13 rolls per pack, 8 packs per carton

Single roll.....	\$.90
13 rolls (1 pack).....	\$10.40 ea. (.80/rl)
1 - 5 cartons.....	\$67.60 ea. (.65/rl)
6 cartons or more.....	\$52.00 ea. (.50/rl)

Carbon ribbon, 4" roll contains 900', will print three (3) rolls of paper tape. Shipped 24 rolls per pack.

Single roll.....	\$ 1.80
1 - 5 packs.....	\$40.80 ea. (1.70/rl)
6 - 10 packs.....	\$36.00 ea. (1.50/rl)
11 packs or more.....	\$26.40 ea. (1.10/rl)

DISCOUNTS

Discounts for products delivered within a 12-month period are:

Components, sub-systems and systems, model number series 1000, 2000, and 3000.

Quantity	Discount
1 9	NET
10 49	2 1/2 %
50 99	5 %
100 199	10 %
200 499	15 %

All Dual Image modules:

Quantity	Discount
1 9	NET
10 49	7 1/2 %
50 99	10 %
100 199	20 %
200 499	25 %
500 .. 1000	40 %

Substantial discounts for higher quantities are available subject to negotiation.

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IN UK AND EUROPE Building 112A Schiphol Airport Amsterdam The Netherlands—Telephone (020) 151602

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The sensible Keystroke Storage for photo-composers' office automation computer input.

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correct it. Finally, pass it on to your machines at high speed. Any character set or code. Call (206) 774-3511.